Operating Instructions and Parts Manual
17" Floor Drill Press
Model: JDP-17DX



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Part No. M-354173
Revision C1 11/2013

Warranty and Service

JET, Wilton and Powermatic warrants every product they sell against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday

Warranty Period
The general warranty lasts for the time period specified in the literature included with your product or on the official JET, Wilton or Powermatic branded websites.

- JET, Wilton and Powermatic products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered
This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered
This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance.

Warranty Limitations
Woodworking products with a Five Year Warranty that are used for commercial ~~or~~ industrial or education purposes revert to a One Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support
Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET, Wilton and Powermatic have Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET, Wilton or Powermatic website.

More Information
JET, Wilton and Powermatic are consistently adding new products. For complete, up-to-date product information, check with your local Walter Meier distributor or visit the JET, Wilton or Powermatic website.

How State Law Applies
This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty
JET, WILTON AND POWERMATIC LIMIT ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
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Product Listing with Warranty Period

90 Days – Parts; Consumable items; Light-Duty Air Tools
1 Year – Motors; Machine Accessories; Heavy-Duty Air Tools; Pro-Duty Air Tools
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories
5 Year – Woodworking Machinery
Limited Lifetime – Wilton branded products; JET Parallel clamps; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools

NOTE: JET, Wilton and Powermatic are divisions of Walter Meier Manufacturing Americas. References in this document to JET, Wilton and/or Powermatic also apply to Walter Meier Manufacturing Americas or any of its successors in interest to the JET, Wilton and/or Powermatic brands.

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The specifications in this manual are given as general information and are not binding. Walter Meier (Manufacturing) Inc., reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.

⚠ Warnings

1. Read and understand the entire owners' manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace the warning labels if they become obscured or removed.
4. This drill press is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a drill press, do not use until proper training and knowledge have been obtained.
5. Do not use this drill press for other than its intended use. If used for other purposes, Walter Meier (Manufacturing) Inc., disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses/face shields while using this drill press. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
7. Before operating this drill press, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
8. Wear ear protectors (plugs or muffs) during extended periods of operation.
9. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead based paint.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as face or dust masks that are specifically designed to filter out microscopic particles.

10. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
11. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
12. Make certain the machine is properly grounded.
13. Make all machine adjustments or maintenance with the machine unplugged from the power source.
14. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
15. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
16. Make sure the drill press is firmly secured to the floor or bench before use.
17. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
18. Provide for adequate space surrounding work area and non-glare, overhead lighting.
19. Keep the floor around the machine clean and free of scrap material, oil and grease.
20. Don't use in dangerous environment. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
21. Keep visitors a safe distance from the work area. **Keep children away.**
22. Make your workshop child proof with padlocks, master switches or by removing starter keys.

⚠ Warnings

23. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
24. Maintain a balanced stance at all times so that you do not fall or lean against the spindle or other moving parts. Do not overreach or use excessive force to perform any machine operation.
25. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and safer.
26. Use recommended accessories; improper accessories may be hazardous.
27. Maintain tools with care. Keep drill bits sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
28. Disconnect tools before servicing; when changing accessories, such as blades, bits, cutters and the like.
29. Make sure the work piece is securely attached or clamped to the table. Never use your hand to hold the work piece.
30. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris — do not use your hands.
31. Do not stand on the machine. Serious injury could occur if the machine tips over.
32. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
33. Remove loose items and unnecessary work pieces from the area before starting the machine.

Familiarize yourself with the following safety notices used in this manual:

⚠CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

⚠WARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

Switch Padlock

To safeguard your machine from unauthorized operation and to avoid accidental starting by young children, the use of a padlock (not supplied) is highly recommended.

To lock out an on-off switch:

1. Open the padlock (Fig. A).
2. Insert through holes in the start button (Fig. B).
3. Close the padlock.
4. Place the key in a safe place.

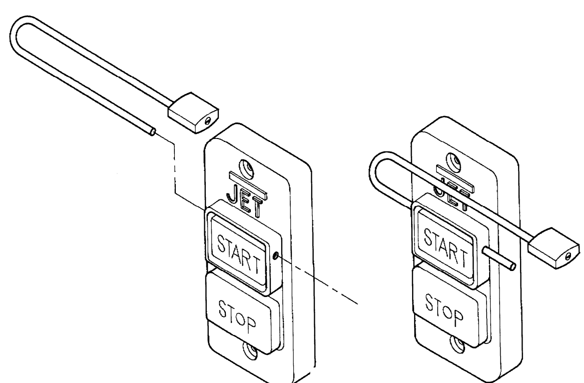


Figure A Figure B

Introduction

This manual is provided by Walter Meier (Manufacturing) Inc., covering the safe operation and maintenance procedures for the JET JDP-17DX Drill Press. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This machine has been designed and constructed to provide years of trouble free operation if used in accordance with instructions set forth in this manual. If there are any questions or comments, please contact either your local supplier or Walter Meier. Walter Meier can also be reached at our web site: www.waltermeier.com.

Specifications

Model Number....JDP-17DX
Stock Number.... 354173
Swing (in.).... 16-1/2
Type.... Floor
Drilling Capacity (in.).... 5/8
Chuck Size (in.).... 5/8
Spindle Travel (in.).... 4-3/8
Maximum Spindle Distance to Base (in.).... 49
Maximum Spindle Distance to Table (in.).... 29-1/8
Table Size (in./WxD)....18-1/2 x 14-1/2
Table Insert (in.)....2-11/16 x 2-11/16
Table Tilt (deg.).... + or – 45
Table slots width (in.).... 1/2
Table T-slots (in./WxD)....11/16 x 3/8
Spindle Taper....MT-2
Column Diameter (in.).... 3-1/8
Number of Spindle Speeds.... 16
Range of Spindle Speeds (RPM).... 230-3,630
Light Bulb (not included).... 60W max.
Overall Height (in.).... 65
Base Size (in.)....12-1/2 x 19-5/8
Motor....TEFC, 3/4 HP, 1 Ph, 115V only, 60Hz
Cord Length (ft.).... 6
Net Weight – approx. (lbs.).... 200
Shipping Weight – approx. (lbs.).... 215

The above specifications were current at the time this manual was published, but because of our policy of continuous improvement, Walter Meier reserves the right to change specifications at any time and without prior notice, without incurring obligations.

⚠WARNING Read and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

Unpacking

Separate all parts from the packing material. Check each part against the *Contents of the Shipping Container* and make certain that all items are accounted for before discarding any packing material.

Contents of the Shipping Container

- A Head Assembly (1)
- B Table and Bracket Assembly (1)
- C Table Insert (1)
- D Base (1)
- E Column and Rack Assembly (1)
- F Downfeed Handle (3)
- G Arbor (1)
- H Drift Key (1)
- J Column Lock Handle (1)
- K Chuck Key (1)
- N Chuck (1)
- O M10 x 40 Hex Cap Screws (4)
- P Table Bracket Position Handle (1)
- -- Owner's Manual (1)
- -- Warranty Registration Card

Tools Supplied for Assembly

- L 3mm Hex Wrench
- M 5mm Hex Wrench

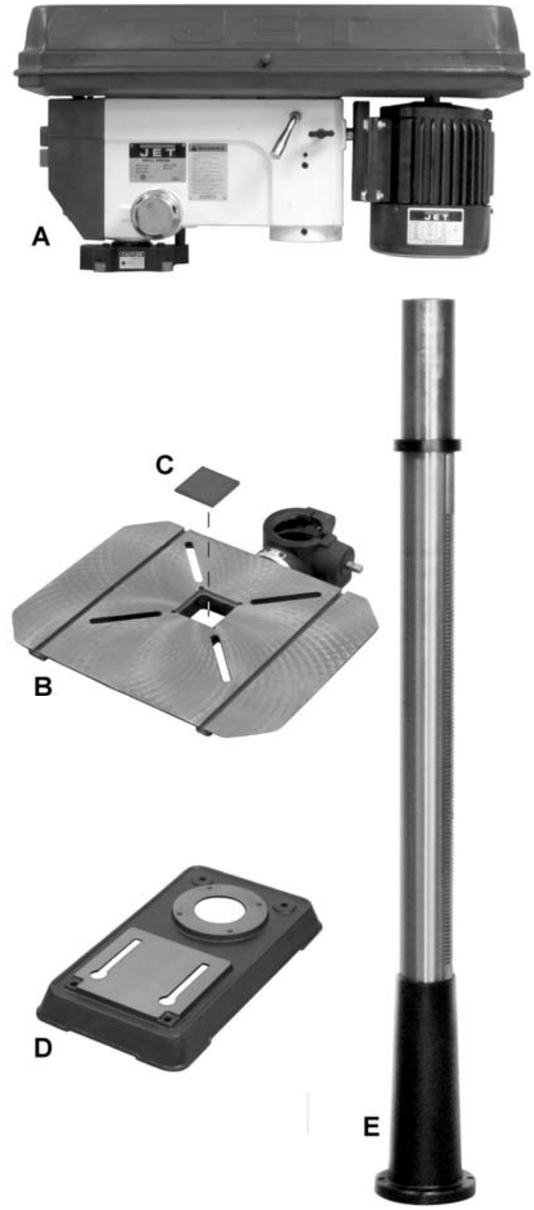
Tools Required for Assembly

17mm Box Wrench or a 6"-8" Adjustable Wrench

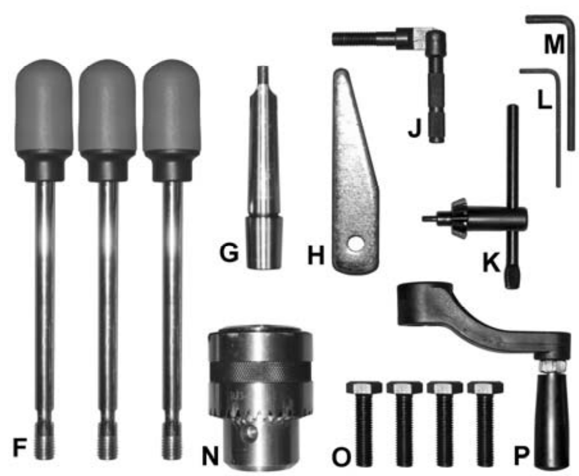
⚠WARNING Read and understand all assembly instructions before attempting assembly! Failure to comply may cause serious injury!

Before Assembly

1. Remove the contents from the shipping container.
2. Compare the contents of the shipping container with the list found above. Report any shortages or damage to your JET distributor.
3. Clean all rust protected surfaces with kerosene or a light solvent. Do not use lacquer thinner, paint thinner, or gasoline. These will damage plastic components and painted surfaces.



Contents of Shipping Container



Hardware Package (p/n JDP17DX-HP)

Assembly

Base and Column Assembly

Referring to Figure 1:

1. Place the *base* (A) on a level floor.
2. Place the *column assembly* (B) on the *base* (A) and align the holes in the column support with the holes in the base.
3. Using a 17mm wrench, secure the *column* (B) with four M10 x 40 *hex cap screws* (C) to the base.

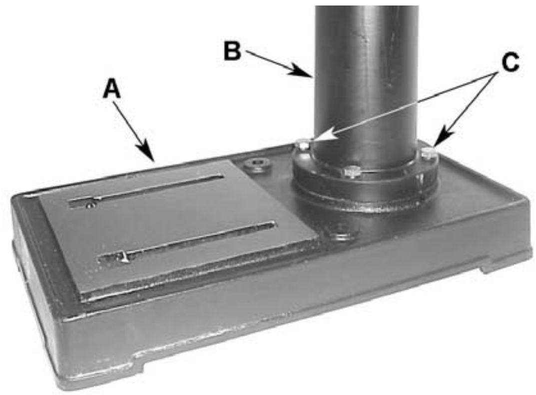


Figure 1

Table and Rack

Referring to Figure 2:

When shipped, the *rack ring* (E) and *rack* (F) are bundled together with the *column* (D) in plastic wrap.

1. Remove the wrap and take the *rack ring* (E) and *rack* (F) off the *column* (D). *Note which end of the rack is up. It must be reinstalled later with the same side up.*
2. Place the *rack* (F) inside the table *bracket* (G) such that the teeth of the *rack* (F) mesh with the pinion gear on the end of the table crank handle *shaft* (H).
3. Slide the *table and bracket assembly* (B, G) together with the *rack* (F) onto the *column* (D) as shown.
4. Slide the *rack ring* (E) onto the *column* (D), placing it so it rests against the *rack* (F) as shown and tighten the *setscrew* (C) with a 3mm hex wrench.

Table Crank and Column Lock Handles

Referring to Figure 2:

1. Loosen the *setscrew* (J) on the table *crank handle* (K).
2. Slide the *handle* (K) onto the table bracket *shaft* (H).
3. Turn the *handle* (K) until the *setscrew* (J) is on the flat section of the *shaft* (H) and tighten the *setscrew* (J) with a 3mm hex wrench to secure the handle.
4. Thread the *column lock handle* (A) into the back side of the *table bracket* (G) opposite the *crank handle* (G).

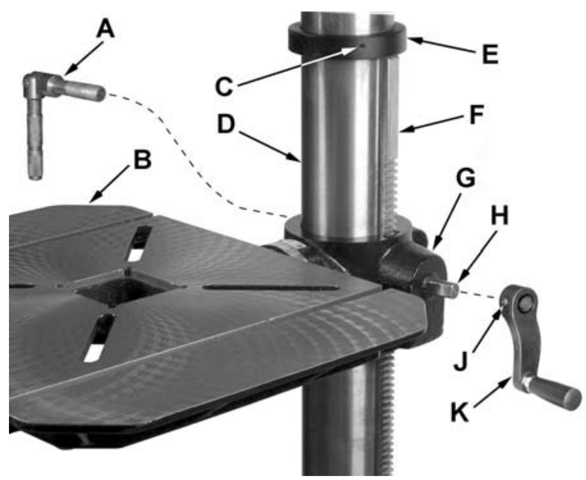


Figure 2

Mounting the Head

1. With the aid of a second person, carefully lift the *head* onto the *column top* (Figure 3).

⚠CAUTION The head assembly is heavy! To avoid injury and/or damage to equipment, lift the head onto the column only with additional assistance!

2. Rotate head assembly until sides of the *belt cover* (E) are parallel with the sides of the *base* (A, Fig. 1).
3. Tighten two *set screws* (A, Fig. 3) with a 5mm wrench until they are snug.

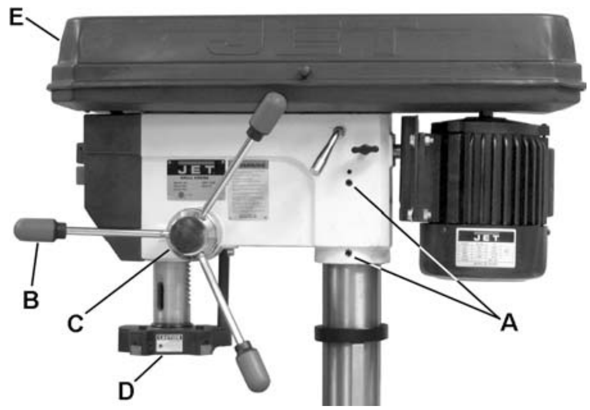


Figure 3

Downfeed Handles

Referring to Figure 3:

For right-handed operation, install three *downfeed handles* (B) into the *downfeed hub* (C) as shown.

For left-handed operation, install the downfeed handles into the hub on the left side of the head.

Installing the Chuck and Arbor

1. Lower the table out of the way of the *spindle assembly* (D, Fig. 3).

Referring to Figure 4:

2. Thoroughly clean *spindle* (A), *arbor* (C), and *chuck* (D).

   Important: These three pieces must be free of any rust protection, or lubricant. If they are not clean, the arbor and chuck will fail to seat in the spindle.

3. Place *arbor* (C) into the *chuck* (D).
4. Twist the chuck to completely retract the chuck jaws if they are exposed.
5. Place arbor and chuck assembly into the *spindle* (A).
6. Turn the arbor and chuck assembly until the *tang* (B) on the *arbor* (C) engages the slot at the end of the spindle.
7. Use a rubber mallet, or a steel hammer against a block of wood, to sharply tap the bottom of the chuck two or three times to seat the chuck/arbor assembly. (Note: Do **not** use a steel hammer directly against the chuck.)

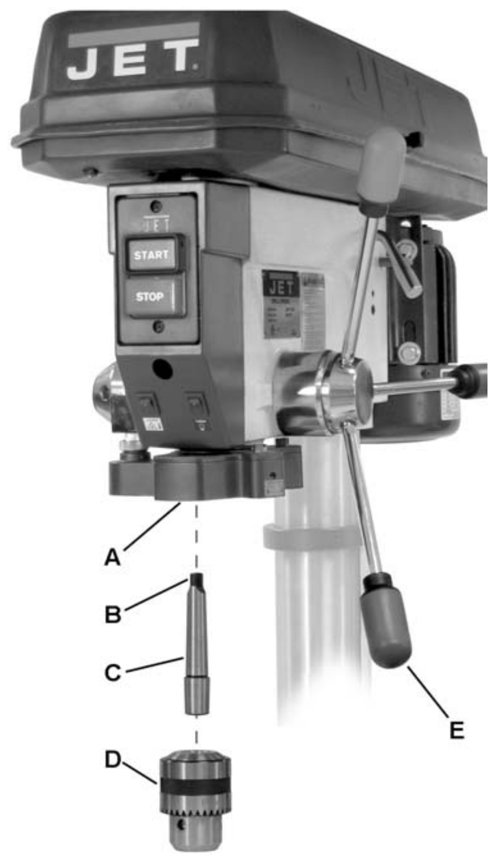


Figure 4

Electrical

Grounding Instructions

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug.

The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

115 Volt Operation Only

Referring to Figure 5:

As received from the factory, your drill press is ready to run at 115-volt operation. This drill press, when wired for 115 volt, is intended for use on a circuit that has an outlet and a plug that looks like the one illustrated in (A). A temporary adapter, which looks like the adapter shown in (B), may be used to connect this plug to a two-pole receptacle if a properly grounded outlet is not available. The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. This adapter is not applicable in Canada. The green colored rigid ear, lug, or tab, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

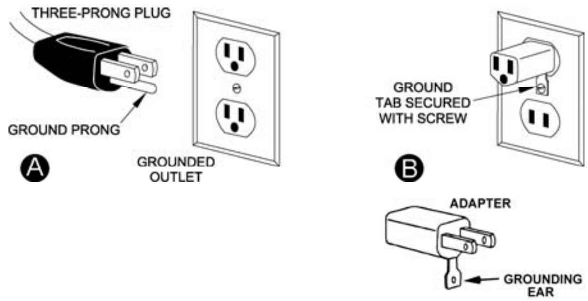


Figure 5

Extension Cords

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your machine will draw. An undersized cord will cause a drop in the line voltage resulting in power loss and overheating. The table below shows the correct size to use depending on the cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. Remember, the smaller the gauge number, the heavier the cord.

Cord Length	AWG
0 – 25ft	16
5 – 50ft	14

Important: Make certain the receptacle in question is properly grounded. If you are not sure, have a registered electrician check the receptacle.

230	330	380	470
540	600	700	770
830	900	1550	1650
1800	2380	2540	3630

Figure 6 –Drill Speed Chart: Spindle Speeds in RPM

Adjustments

Removing the Chuck and Arbor

Referring to Figure 7:

1. Unplug machine from the power source.
2. Raise the table until it is about seven inches below the chuck.
3. Place a piece of scrap wood on the table, and lower *quill* (E) using the *downfeed handle* (A, C).
4. Still maintaining the lowered quill position, rotate spindle to align the key hole in the spindle with the key hole in the *quill* (E).
5. Insert the *drift key* (D) into the aligned slots and tap lightly. The chuck and arbor assembly should fall from the spindle.

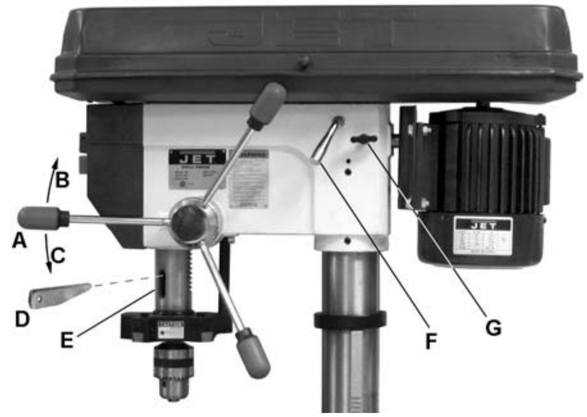


Figure 7

⚠CAUTION Prepare to catch the chuck and arbor as it drops. Striking the floor could damage tool.

Adjusting the Depth Stop

Referring to Figure 8:

To drill multiple holes at the same preset depth, use the depth stop as follows:

1. Use a pencil to mark the depth the bit will drill into the *workpiece* (A).
2. With the drill bit in the chuck, lower down feed handle to advance bit to your mark.
3. With your other hand, advance the *lock nut* (C_1) on the depth stop rod until they are snug to the *seat* (B). Tighten C_2 against C_1.
4. The drill bit will now advance to this point.
5. To release, advance the nuts counter-clockwise to the top of the depth stop.

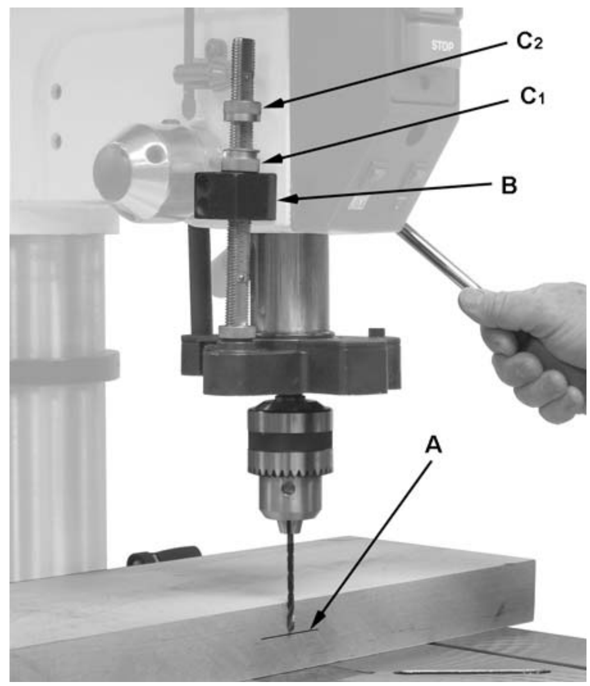


Figure 8

Changing Spindle Speeds

A spindle speed and belt arrangement chart (Figure 6) is found on the inside of the belt cover. Refer to this chart whenever changing speeds.

To change spindle speeds (refer to Figure 7):

1. Unplug the machine from the power source.
2. Loosen two *bar knobs* (G), one found on each side of the head assembly.
3. Rotate the *tension adjuster* (F) to bring the motor base as close to the head as possible.
4. Change the belts location according the speed chart and the speed you desire.
5. Rotate the *tension adjuster* (F) to tension the belts.
6. Tighten two *bar knobs* (G). Belts are properly tensioned when moderate pressure with finger and thumb midway between the two pulleys causes approximately ½" deflection. Tighten two *bar knobs* (G).

Return Spring Adjustment

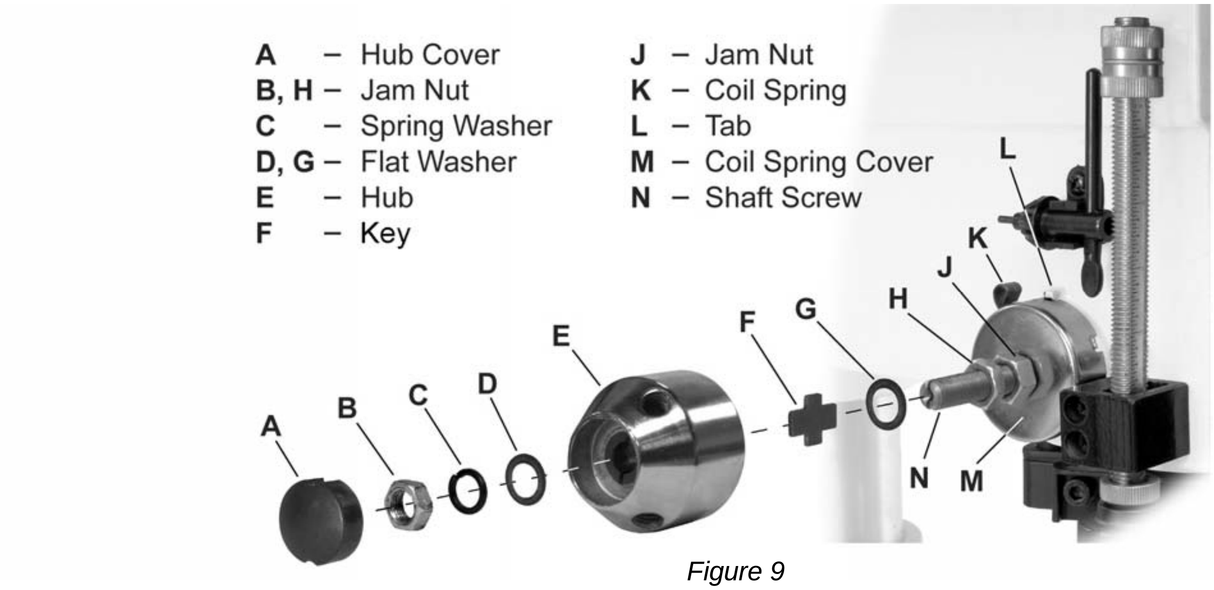


Figure 9

The *return spring* is located behind the left *downfeed handle hub*. It is adjusted at the factory and should not need further adjustment.

If adjustment is deemed necessary:

1. Unplug the machine from the power source.

Referring to Figure 9:

2. Remove *Items* A–G in that order. A 19mm wrench is required to loosen the *hex nut* (B).
3. Loosen the two *jam nuts* (H, J). Do not remove.
4. Pull out slightly the *coil spring cover* (M) while firmly holding it. DO NOT allow the coil spring cover to turn freely in your hand, or the spring will unwind.
5. Rotate the coil spring cover (M) until the notch on the cover engages with the tab (L) on the head casting. Turn the cover clockwise to decrease tension and counter-clockwise to increase tension.
6. Replace flat washer (G) and *key* (F).
7. Tighten *hex nut* (J) firmly by hand against the *cover* (M), then secure by tightening the *jam nut* (H) against the hex *nut* (J).
8. Reinstall the *hub* (E), *flat washer* (D) and *spring washer* (C).
9. Reinstall and tighten jam nut (B).
10. Reinstall the *hub cover* (A).

Table Tilt Adjustment

⚠CAUTION Remove the alignment pin first and then loosen the hex cap bolt. Failure to comply may cause the table assembly to separate from the column and fall.

To tilt the table (referring to Figure 10):

1. Turn *nut* (C) clockwise to pull out the *alignment pin* (B).
2. Loosen *hex cap screw* (A), and tilt the table to the desired angle.
3. Tighten the *hex cap screw* (A).
4. Reinsert the *alignment pin* (B).

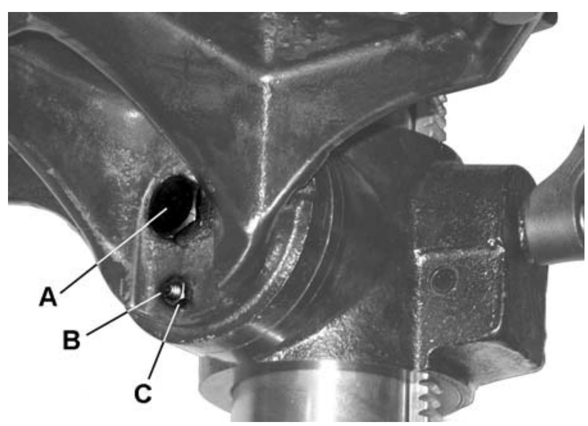


Figure 10

The alignment pin only works at 90° and must be reinserted when the table is returned to 90°.

Laser Adjustment

The Laser Assembly has been installed and preset at the factory. It should, however, be checked and adjustments made, if necessary, before operating the drill press. It should also be rechecked periodically, as constant machine use may cause it to become misaligned. Make verifications and align as follows:

Referring to Figure 11:

1. Take a length of *board* (F) and draw a *perpendicular line* (E) on one side using a square.
2. Place a small *drill bit* (C) in the *chuck* (B), then place the *board* (F) on the table on edge against the *drill bit* (C) with the marked line side facing toward the *laser* to be aligned (A_1 in this case).

Important: The table should be in horizontal position and locked.

3. Connect power to the drill press and turn on the laser using the button at the front of the drill press head.

Two parallel *laser markings* will appear that should look like G and H in Figure 11 – the distance between the lines will vary with board thickness; however, the lines must be parallel to each other *and* the marked line (vertical alignment).

If alignment is necessary:

Vertical Alignment (refer to Figure 11)

5. Make slight adjustments to four *setscrews* (K_{1-4}, Fig. 12) and move the *board* (F) from side to side as required until the *laser light* (D) lines up with the board *marking* (E).
6. Tighten all four setscrews so they are snug against the laser housing, but do not over tighten.

   Verify that the *laser light* is still lined up with *board marking*.

7. Adjust the other laser in the same manner.

Two resulting parallel *laser markings* should look like G and H in Figure 11 – the distance between the lines can vary but must be parallel to each other *and* the marked line.

Cross Hair Alignment (refer to Figure 13)

8. Place *board* (M) flat on the table. Do not allow the board to move from this position; use clamps if needed. Bring the bit down until it leaves a *slight perforation* in the board (O) then raise it back up.
9. Turn on the laser to check if the cross-hairs intersect at the perforation.

If adjustment is required:

10. Choosing first one laser (A_1 in this case), loosen two setscrews on the *same side* (either side) of the *laser housing* equal amounts about 1/4 turn or less.

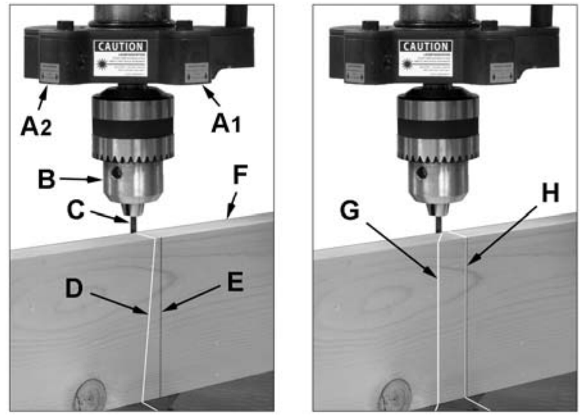


Figure 11



Figure 12

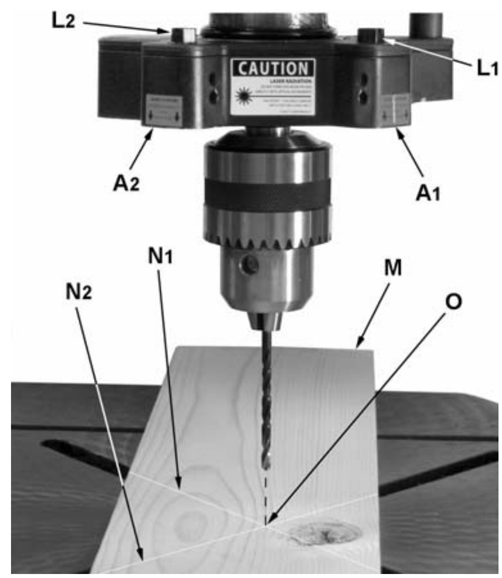


Figure 13

11. Adjust (L_1) so the *laser line* (N_1) crosses the perforation (O); then retighten setscrews.
12. Adjust the other laser assembly in the same manner until both laser lines form *cross-hairs* (N_1, N_2) exactly over the *perforation* (O) in the board.
13. Recheck the *vertical alignment* to insure that the laser lines did not shift during the tightening process.

The laser is now calibrated properly and the location of your holes can be centered at the crosshairs for accurate drilling.

Laser Assembly Removal/Installation

The JDP-17DX drill press can be used as a mortiser when fitted with a mortiser adapter (not included). When used as a mortiser, the laser assembly must be removed as follows:

Referring to Figure 14:

1. Unplug machine from the power source.
2. Remove the *chuck and arbor* assembly (described on page 7).
3. Remove *nuts* (A, C), and *washer* (B) from the *depth set bolt* (H_2).
4. With a 5mm hex wrench, loosen the *socket head cap screw* (J) on the *laser housing* (H) and lower the assembly.
5. Disconnect wiring *connectors* E_1, E_2.

This completes the removal of the laser assembly.

To re-install the laser assembly:

1. Reconnect the wiring. Note that each E1 connector can be connected to any E2 connector (order is not important).
2. Install the laser by passing the *sleeve* (H_1) and *depth seat bolt* (H_2) through the head casting opening (F) and *seat* (D) respectively, then seating the *laser housing* (H) onto the *quill* (G).
3. Secure assembly by tightening *socket head cap screw* (J).

This completes the laser assembly installation.

Important: After installation, lasers must be recalibrated as described in the *Laser Adjustment* section (page 13).

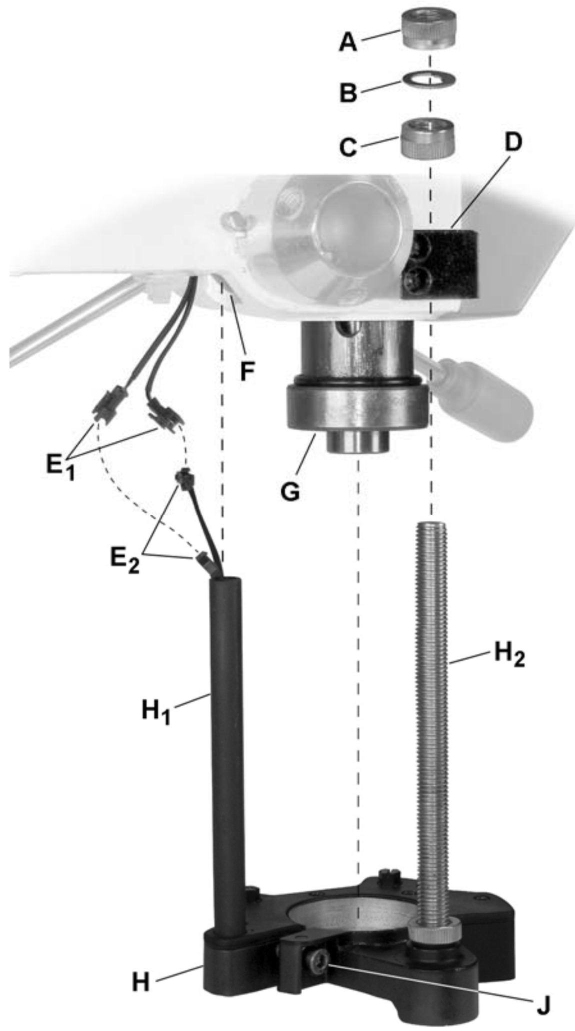


Figure 14

Lamp

A light bulb is not included. If desired, insert a standard 60W bulb into the socket accessible from bottom of head.

Operating Controls

Refer to Figure 15:

Start Switch (A) – Press to start machine

Stop Switch (B) – Press to stop machine

Light Switch (C) – Turns lamp on and off

Laser Switch (D) – Turns laser on and off

Downfeed Handle (E) – Lower and raise drill

Table Height Adjust Handle (F) – Raises and lowers table; table lock handle (A, Fig. 2) needs to be unlocked.

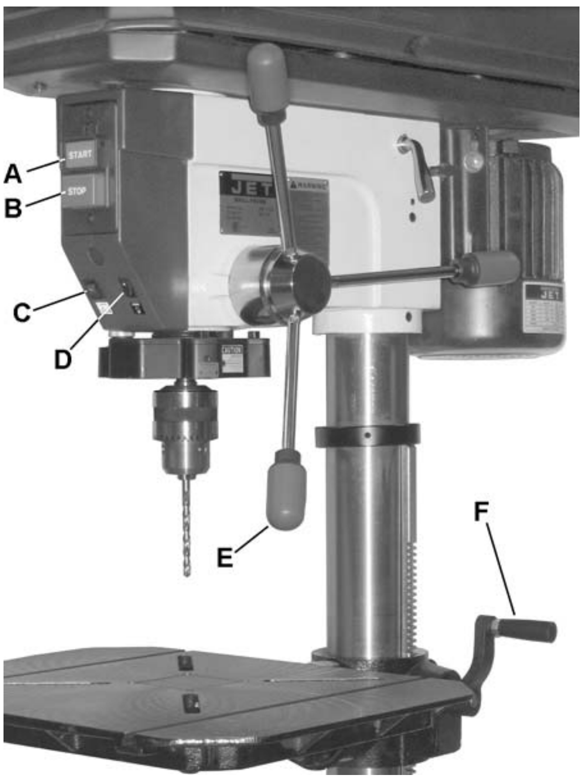


Figure 15

Basic Operation

- ❒ Always use a back-up piece of scrap wood to cover the table. This protects both the table and the drill bit.
- ❒ Place material to be drilled in such a way as to come into contact with the left side of the column. This prevents the material from spinning.

⚠WARNING If the work piece is not large enough to come into contact with the column, use a clamp or drill press vise that is securely fastened to the table!

Failure to comply may cause serious injury!

- ❒ Feed the bit into the material with only enough force to allow the drill bit to work. Feeding too slowly may cause burning of the workpiece. Feeding too quickly may cause the motor to stop and/or the drill bit to break.

  Generally speaking, the smaller the drill bit, the greater the RPM required. Wood requires higher speeds than metal. Metal is usually drilled at slower speeds.
- ❒ In dusty environments, frequently blow out any dust that accumulates inside the motor.

Lubrication

Periodically lubricate the gear and the rack, the table elevation mechanism, the splines (grooves) in the spindle, and the teeth of the quill with #2 tube grease.

Troubleshooting

Trouble	Probable Cause	Remedy
Drill press will not start.	1. Drill press unplugged from wall or motor. 2. Fuse blown or circuit breaker tripped. 3. Cord damaged. 4. Starting capacitor bad.	1. Check all plug connections. 2. Replace fuse or reset circuit breaker. 3. Replace cord. 4. Replace starting capacitor.
Drill press does not come up to speed.	1. Extension cord too light or too long. 2. Low current.	1. Replace with adequate size and length cord. 2. Contact a qualified electrician.
Drill Press vibrates excessively.	1. Stand on uneven surface. 2. Bad belt(s).	1. Adjust stand so that it rests evenly on the floor. 2. Replace belts.
Noisy Operation.	1. Incorrect belt tension. 2. Dry spindle. 3. Loose spindle pulley. 4. Loose motor pulley.	1. Adjust belt tension. See *Chang-ing Spindle Speeds* on page 12. 2. Lubricate spindle. See *Lubrication* on page 15. 3. Check tightness of retaining nut on pulley and tighten if necessary. 4. Tighten set screws in pulleys.
Workpiece Burns.	1. Incorrect Speed. 2. Chips not clearing from hole or bit. 3. Dull drill bit. 4. Feeding too slowly.	1. Change to appropriate speed – see speed and pulley chart on page 13. 2. Retract drill bit frequently to remove chips. 3. Resharpen, or replace drill bit. 4. Increase feed rate.
Drill bit wanders.	1. Bit sharpened incorrectly. 2. Bent drill bit. 3. Bit or chuck not installed properly.	1. Resharpen bit correctly. 2. Replace drill bit. 3. Reinstall the chuck, or bit properly.
Wood splinters on the underside.	1. No backing board used.	1. Place a scrap board underneath the workpiece to prevent splintering.
Drill bit binds in workpiece.	1. Workpiece pinching the bit. 2. Excessive feed rate. 3. Chuck jaws not tight. 4. Improper belt tension.	1. Support or clamp workpiece. 2. Decrease feed rate. 3. Tighten chuck jaws. 4. Increase belt tension (page 12).
Excessive drill bit run out, or wobble.	1. Bent drill bit. 2. Worn spindle bearings. 3. Bit, or chuck not properly installed.	1. Replace drill bit. 2. Replace spindle bearings. 3. Reinstall the bit, or chuck properly.
Quill returns too slow, or too fast.	1. Spring has improper tension.	1. Adjust "Return Spring Tension," page 14.
Chuck, or arbor do not stay in place.	1. Dirt, grease, etc on arbor, chuck, or spindle.	1. Clean all mating surfaces thoroughly with a cleaner degreaser.

Parts

Ordering Replacement Parts

To order parts or reach our service department, call 1-800-274-6848 Monday through Friday (see our website for business hours, www.waltermeier.com). Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Parts List

Index No	Part No	Description	Size	Qty
1	JDP17DX-001	Motor Assembly		1
2	8907522151	Motor	3/4HP,1Ph,115V	1
	82061041	Motor Fan (not shown)		1
	89075161	Motor Fan Cover (not shown)		1
	2992A55A14	Capacitor (not shown)	200MFD, 125VAC	1
	299155BA04	Centrifugal Switch (not shown)		1
3	JDP17DX-003	Parallel Key	6x6x30	1
4	TS-1540061	Hex Nut	M8	4
5	10703414	Motor Base	75x125	1
6	JDP17DX-006	Hex Washer Head Cap Screw	M8x25	4
7	TS-152706	Hex Wrench	5mm	1
8	TS-152704	Hex Wrench	3mm	1
	JDP17DX-TBA	Table and Bracket Assembly *(includes # 9,12,23,27,31-34)*		1
9	JDP17DX-009	Table *(must order JDP17DX-TBA)*		1
10	JDP17DX-010	Insert		1
11	10602205	Rack		1
12	2658MZDU36	Drive Screw	Dia. 2.3-5	4
13	TS-1525021	Set Screw	M10x12	1
14	TS-1491061	Hex Cap Screw	M10x40	4
15	10601901	Column Lock Handle		1
16	10601009A1	Crank Handle Assembly		1
17	10600902	Worm		1
18	JDP17DX-018	Rack Ring Assembly		1
19	10702307A1	Rack Ring		1
20	TS-1523021	Set Screw	M6x8	1
21	12909001	Column		1
	12909001A1	Column and Holder Assembly		1
22	10700207	Column Holder		1
23	JDP17DX-023	Table Bracket Assembly *(includes # 24-26)*		1
24	10600702	Gear		1
25	10600802	Gear Shaft		1
26	JDP17DX-026	Table Bracket		1
27	JDP17DX-027	Location Pin Assembly *(includes # 28,29)*		1
28	TS-0561011	Hex Nut	1/4-20	1
29	10901402	Location Pin		1
30	10600111	Base		1
31	TS-0071011	Hex Cap Screw	5/8-11x1-1/2	1
32	JDP17DX-032	Nut	5/8-11UNC T=15	1
33	JDP17DX-033	Centering Scale		1
34	JDP17DX-034	Tilting Scale		1
35	10611201	Chuck Key Holder		1
36	JDP17DX-036	Depth Set Bolt Assembly *(includes # 37-39)*		1
37	2658MZDU36	Drive Screw	Dia.2.3-5	2
38	JDP17DX-038	Depth Set Bolt		1
39	10904616	Scale		1
40	10661801	Circular Nut		1

Parts List

Index No	Part No	Description	Size	Qty
41	10661102	Seat		1
42	13005601	Washer		1
43	13005701	Nut		2
44	TS-1503081	Socket Head Cap Screw	M6x35	2
45	TS-1540071	Hex Nut	M10	1
46	TS-1540071	Hex Nut	M10	1
47	TS-2361101	Lock Washer	M10	1
48	TS-1534042	Pan Head Machine Screw	M6x12	1
49	10905116	Seat		1
50	JDP17DX-050	Head		1
51	JDP17DX-051	Laser Assembly *(includes # 52-60 and 155)*		1
52	JDP17DX-052	Upper Cover Plate		1
53	JDP17DX-053	Laser Housing		1
54	JDP17DX-054	Sleeve		1
55	JDP17DX-055	Laser Sleeve Assembly		2
56	JDP17DX-056	Laser		1
57	JDP17DX-057	Laser Sleeve		1
58	TS-1532032	Pan Head Machine Screw	M4x8	4
59	TS-1504051	Socket Head Cap Screw	M8x25	1
60	TS-1523011	Socket Set Screw	M6x6	8
61	JDP17DX-061	Handle Assembly (Set of 3) *(includes # 62,63)*		1
62	JDP17DX-062	Handle Bar		3
63	JDP17DX-063	Handle Grip		3
64	TS-1540081	Hex Nut	M12	2
65	10714001	Motor Bar		1
66	TS-2361121	Lock Washer	M12	2
67	10703211	Motor Bar		1
68	JDP17DX-068	Motor Bar Shifter Assembly *(includes # 69,70)*		1
69	TS-1490021	Hex Cap Screw	M8x16	1
70	JDP17DX-070	Motor Bar Shifter		1
71	2658MZDU36	Drive Screw	Dia.2.3-5	8
72	10902901	Handle Shifter		1
73	TS-1525021	Socket Set Screw	M10x12	2
74	JDP17DX-074	Hub		1
75	JDP17DX-075	Spring Pin	5-16	1
76	10604505	Scale Ring		1
77	10605403	Quill Set Screw	M10	1
78	JDP17DX-078	Spring Cap Assembly *(includes # 79-81)*		1
79	10905203	Spring Retainer		1
80	JDP17DX-080	Spring Cap		1
81	JDP17DX-081	Coil Spring		1
82	JDP17DX-082	Key		1
83	TS-0561052	Hex Nut	1/2-20UNF	1
84	TS-0571052	Hex Jam Nut	1/2-20UNF	2
85	TS-0680061	Flat Washer	1/2	1
86	JDP17DX-086	Hub		1
87	TS-0720111	Lock Washer	1/2	1
88	JDP17DX-088	Cover		1
89	10903302	Bar Bolt		2
90	2536MBE616	Spring Pin		2
91	TS-1534052	Pan Head Machine Screw	M6x16	4
92	TS-0680021	Flat Washer	1/4	4
93	TS-0680061	Flat Washer	1/2	1
94	JDP17DX-094	Feed Shaft		1
	JDP17DX-FHA	Feed Hub Assembly *(includes # 74,75, and 94)*		1

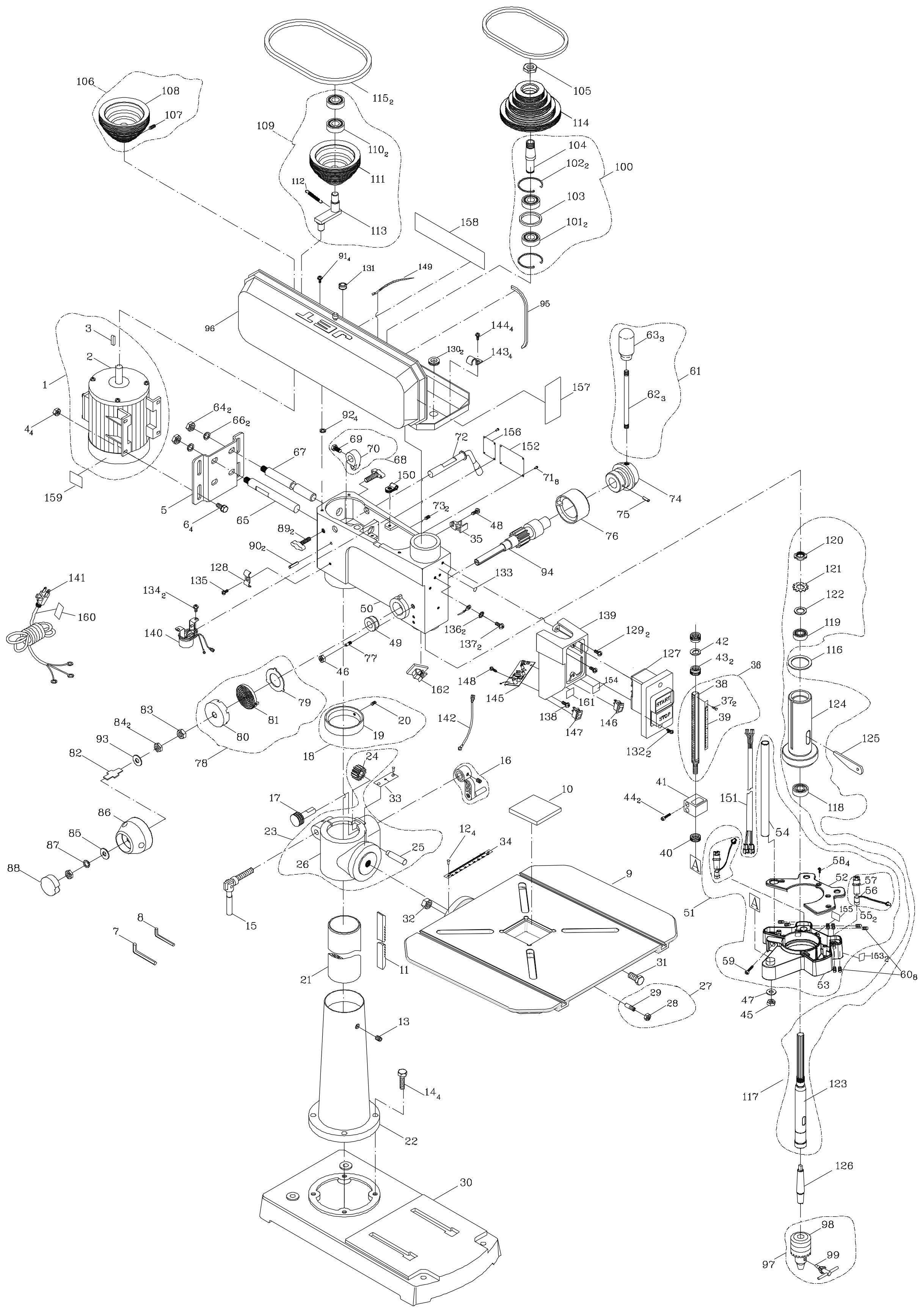
Parts List

Index No	Part No	Description	Size	Qty
95	JDP17DX-095	Rubber Seal		1
96	JDP17DX-096	Pulley Cover Assembly		1
97	JDP17DX-097	Chuck & Key		1
98	561708	Drill Chuck	5/8”	1
99	2136ABD109	Drill Chuck Key	5/8"	1
100	JDP17DX-100	Driving Sleeve Assembly *(includes # 101-104)*		1
101	BB-6205ZZ	Ball Bearing	6205ZZ	2
102	10706802	Retaining Ring		2
103	10706705	Collar	Dia.50	1
104	10706508A1	Driving Sleeve		1
105	10606904	Pulley Set Nut		1
106	JDP17DX-106	Motor Pulley Assembly		1
107	TS-1524031	Socket Set Screw	M8x12	1
108	JDP17DX-108	Motor Pulley		1
109	JDP17DX-109	Center Pulley Assembly *(includes # 110-113)*		1
110	BB-6202ZZ	Ball Bearing	6202ZZ	2
111	JDP17DX-111	Center Pulley		1
112	JDP17DX-112	Extension Spring		1
113	JDP17DX-113	Center Pulley Shaft		1
114	JDP17DX-114	Spindle Pulley		1
115	JDP17DX-115	V-Ribbed Belt	290J4	2
116	10705703	Rubber Washer		1
117	JDP17DX-117	Spindle Assembly *(includes # 118-124)*		1
118	BB-6205ZZ	Ball Bearing	6205ZZ	1
119	BB-6203ZZ	Ball Bearing	6203ZZ	1
120	10606401	Spindle Nut		1
121	10606301	Lock Nut		1
122	10606201	Washer	D=17.5 T=2	1
123	10905829	Spindle		1
124	10905612	Quill		1
125	10607303	Drift Key		1
126	561766	Drilling Arbor	MT2XJT3	1
127	994542	Push Button Switch		1
128	JDP17DX-128	Cord Clamp		1
129	TS-1533062	Pan Head Machine Screw	M5x20	2
130	2801ABRF04	Strain Relief		2
131	2801ABRF01	Strain Relief		1
132	2653MBDE15	Tapping Screw	M4x20	2
133	10216715	Grounding Label		1
134	TS-1534052	Pan Head Machine Screw	M6x16	2
135	TS-1533042	Pan Head Machine Screw	M5x12	1
136	TS-0733031	External Tooth Lock Washer	#10	2
137	TS-1533032	Pan Head Machine Screw	M5x10	2
138	TS-1533052	Pan Head Machine Screw	M5x16	1
139	JDP17DX-139	Switch Box		1
140	JDP17DX-140	Lamp Socket Assembly		1
141	JDP17DX-141	Power Cable		1
142	JDP17DX-142	Lead Wire Assembly		1
143	JDP17DX-143	Cord Clamp		4
144	TS-1533032	Pan Head Machine Screw	M5x10	4
145	JDP17DX-145	Controller Assembly		1
146	JDP17DX-146	Lamp Rocker Switch		1
147	JDP17DX-147	Laser Rocker Switch		1
148	JDP17DX-148	Tapping Screw	M3x10	1

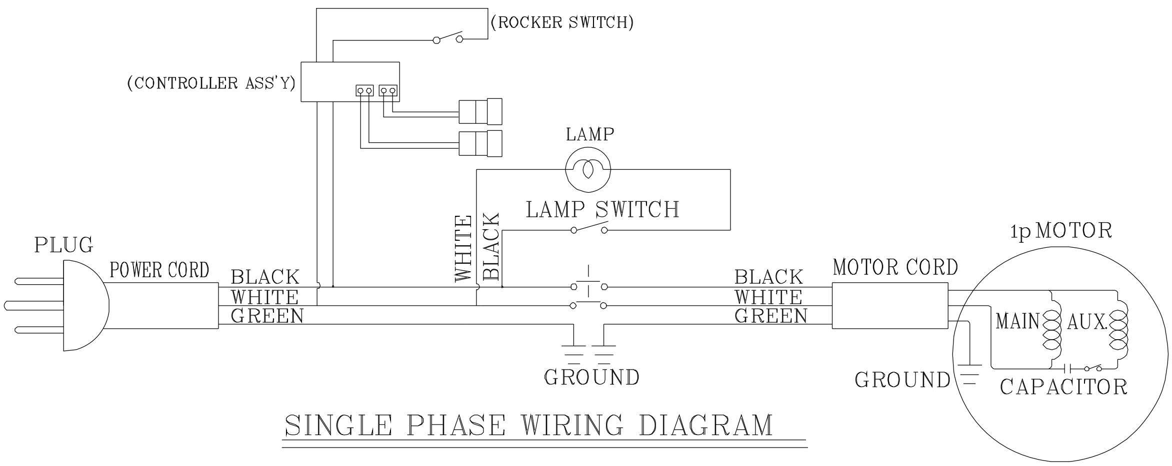
Parts List

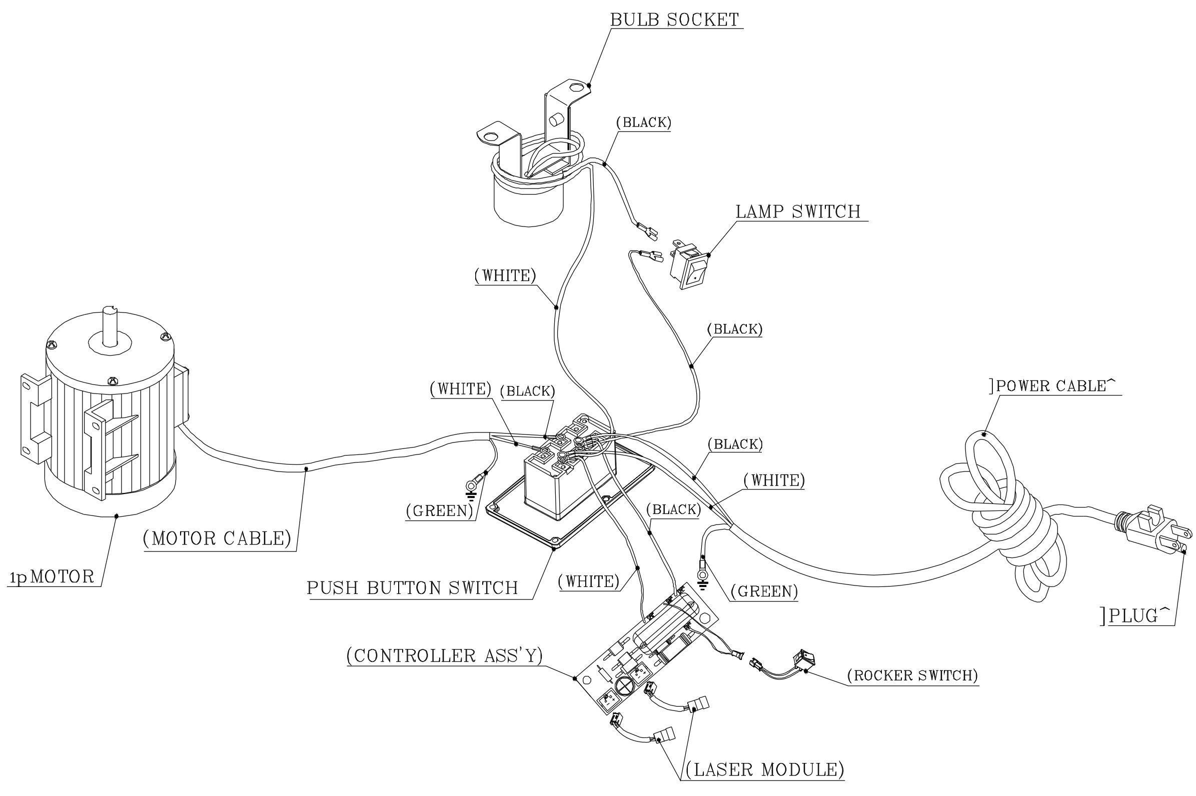
Index No	Part No	Description	Size	Qty
149	JDP17DX-149	Locking Cable Tie		1
150	JDP17DX-150	Cable Clamp		1
151	JDP17DX-151	Lead Wire Assembly		1
152	JDP17DX-152	ID Label		1
153	JDP17DX-153	Laser Direction/Exposure Label		2
154	JDP17DX-154	Light Label		1
155	JDP17DX-155	Laser Caution/Warning Label		1
156	10916202	Warning Label		1
157	11316904	JET Label		1
158	JDP17DX-158	Speed Label		1
159	JDP17DX-159	Motor Label		1
160	JDP17DX-160	Wiring Label		1
161	JDP17DX-161	Laser Label		1
162	JDP17DX-162	Cord Clamp		1
163	JDP17DX-163	Guard Plate		1
	JDP17DX-HP	Hardware Package (includes #7,8,14,15,16,61,97,125,126)		

Assembly Drawing



Wiring Diagram





Notes

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